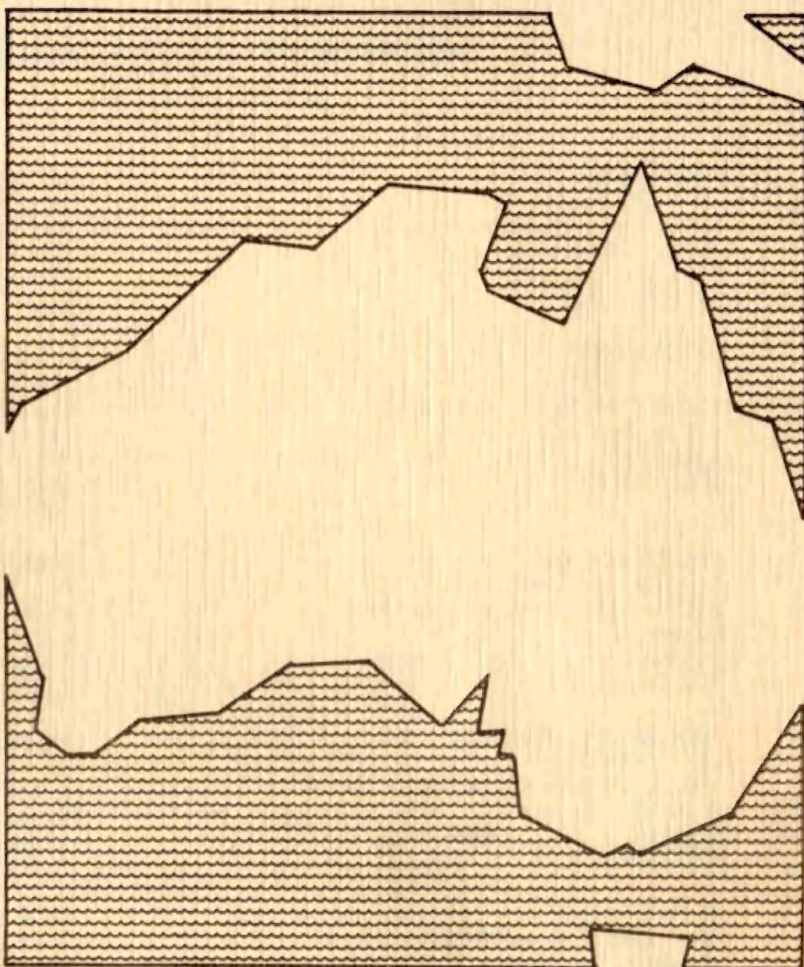
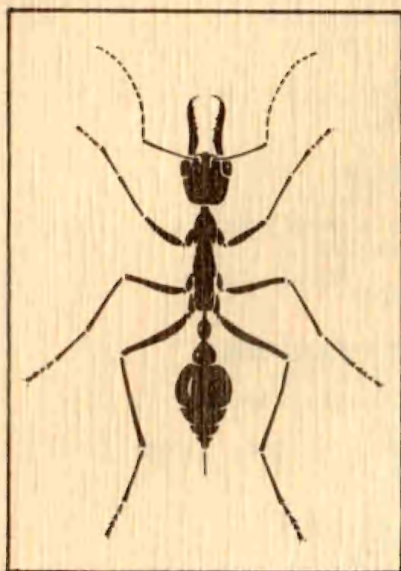


**Australian
Entomological
Society**



NEWS BULLETIN

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AUSTRALIAN ENTOMOLOGICAL SOCIETY

OFFICE BEARERS

PRESIDENT

Dr. E.M. Exley
Department of Entomology
University of Queensland
ST. LUCIA. QLD. 4067.
(07) 3773658

SECRETARY

Dr. P.B. Carne
CSIRO Division of Entomology
G.P.O. Box 1700
CANBERRA. A.C.T. 2601.
(062) 465077

CHIEF EDITOR

Dr. N.W. Heather
D.P.I. Entomology Branch
Meiers Road
INDOOROPILLY. QLD. 4068.
(07) 3779382

TECHNICAL EDITORS

Dr. R. Domrow
Qld. Institute of Medical Research
Bramston Terrace
HERSTON. QLD. 4006.
(07) 529222

Dr. B.H. Kay
Qld. Institute of Medical Research
Bramston Terrace
HERSTON. QLD. 4006.
(07) 529222

Dr. M.P. Zalucki
Entomology Department
University of Queensland
ST. LUCIA. QLD. 4067.
(07) 3773640

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University of Sydney
SYDNEY NSW 2006

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Australian Museum
P.O. Box A285
SYDNEY SOUTH NSW 2000

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Dr. G.H.L. Rothschild
CSIRO Division of Entomology
G.P.O. Box 1700
CANBERRA. A.C.T. 2601.
(062) 465861

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PMB No 1
GLEN OSMOND. S.A. 5064.
(08) 797901

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Mr. T.A. Weir,
CSIRO Division of Entomology
G.P.O. Box 1700
CANBERRA. A.C.T. 2601.
(062) 465293

BUSINESS MANAGER

Mr. J.F. Donaldson
D.P.I. Entomology Branch
Meiers Road
INDOOROPILLY. QLD. 4068.
(07) 3779419

PUBLIC OFFICER

Dr. P.B. Carne
CSIRO Division of Entomology
G.P.O. Box 1700
CANBERRA. A.C.T. 2601.
(062) 465077

NEWS BULLETIN EDITOR

Dr. G.B. Monteith
Queensland Museum
Gregory Terrace
FORTITUDE VALLEY. QLD. 4006.
(07) 522716

IMMEDIATE PAST VICE PRESIDENT

Assoc. Prof. F.J.D. McDonald
Dept. of Plant Path. & Agric.
Entomology
University of Sydney
SYDNEY NSW 2006

(Office bearers continued on rear cover)

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AUSTRALIAN ENTOMOLOGICAL SOCIETY NEWS BULLETIN

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ADVERTISING IN THE BULLETIN

Advertising space is available in the News Bulletin. A new, more flexible scale of rates is now offered as follows:

	Single Issue	Four Issues
Full page (15cm wide x 17cm)	\$50	\$150
Half page (15cm wide x 8.5cm)	\$30	\$ 90
Quarter page (7cm wide x 8.5cm)	\$20	\$ 60

In addition, inserts will be distributed with the Bulletin at \$35 per time. These should be supplied folded so as not to project beyond the Bulletin pages and should be printed with "Supplement to the Australian Entomological Society News Bulletin".

All advertising must be approved by the Executive but should be submitted first to the News Bulletin Editor at his address opposite.

EDITORIAL

As this issue of the News Bulletin goes to press the Mildura Annual General Meeting of the Society is in progress. This event marks a new phase in the Society's development with the installation of a complete new Executive and the transfer of its headquarters from Sydney to Canberra. Please note the new addresses for Society office-bearers recorded inside the covers of this issue and on the enclosed slip.

It is the Regional Councillors in each State who have the task of compiling the regional news for the Bulletin. I'd like to thank the retiring reporters, Ross Storey, Tim New, Jonathon Banks, Mali Malipatil and Penny Greenslade for their efforts in the past. Welcome to the new faces, Alan Walford-Huggins, David Cooper, Barry Longstaff and Ted Fenner.

Members are reminded that the News Bulletin exists to service them and it can only do this effectively if we have a constant interchange of information through the Bulletin. Small items of news can be passed to your local Regional Councillor; longer articles can be sent directly to me. Advertisements, research requests, obituaries, conference notices, book reviews, photographs, letters-to-the-editor are all welcome. The Bulletin issues in the months of February, May, August and November. Copy deadlines are around the third week of months preceeding issues.

Geoff Monteith
News Bulletin Editor

COPY DEADLINE FOR NEXT ISSUE

Material for publication in the August issue of the News Bulletin should be sent to the Bulletin Editor at his address opposite to arrive by Friday July 20.

NOTICE

MATERIAL IN THIS BULLETIN DOES NOT NECESSARILY REPRESENT THE VIEWS OF THE AUSTRALIAN ENTOMOLOGICAL SOCIETY, AND SHOULD NOT BE REFERRED TO OR REPRODUCED WITHOUT PERMISSION OF THE AUTHOR OF THE MATERIAL.

EXECUTIVE REPORT

Membership

Current membership of the Society is 642.

New Members

Elected January 23, 1984

Mrs L.A. Ballantyne
51 Red Hill Road
WAGGA WAGGA NSW 2650

Mr D.N. Crawford
1 Arabana Street
ARABANA ACT 2614

Mr B.C. Dominiak
55 Bright Street
GUILDFORD NSW 2161

Mr C. Easton
Tweed Shire Council
MURWILLUMBAH NSW 2484

Mr M.E. Stone
P.O. B x 483
BILOELA QLD 4715

Elected March 2, 1984

Mr G.R. Allen
8 Milray Street
LINDFIELD NSW 2070

Dr D.J. Campbell
20 Keira Street
WOLLONGONG NSW 2500

Mr T.J. Bertinshaw
23/21 Harrison Street
CREMORNE NSW 2090

Mr G. Everingham
Dept. Plant Path. & Agric. Ent.
University of Sydney
SYDNEY NSW 2006

Mr G. Reidy
Dept. Plant Path. & Agric. Ent.
University of Sydney
SYDNEY NSW 2006

Mr D.M. Ewart
Dept. of Zoology
La Trobe University
BUNDOORA VIC 3083

Miss A.A. Stasiliunas
17 Reserve Road
RINGWOOD VIC 3134

Mr R.B. Tomkins
510 Station Street
BOX HILL VIC 3128

Mr D.C. Williams
Plant Research Inst.
Swan Street
BURNLEY VIC 3121

Miss K.L. Hergstrom
9 Connolly Crescent
ROSTREVOR SA 5063

Mr S.J. Hill
12 Westall Street
HYDE PARK SA 5061

Elected April 6, 1984

Mr I.C. Barrass
Irrigation Research Inst.
TATURA VIC 3616

Ms D. Lacis
21 Osterley Terrace
SEACLIFF PARK SA 5049

Mr A. Kotze
56 Dudley Street
RYDALMERE NSW 2116

Mr D. McCorquodale
Zoology Department
Australian National University
G.P.O. Box 4
CANBERRA ACT 2601

Resignation

The resignation of Mr A. Schmid, of Mt. Isa, was accepted with regret.

Deletions

The following names were deleted from the membership list in accordance with Clause 21(c) of the Constitution:

S.J. Davidson, M.B. Debowski,
P.J. Deighton, D. Dowling, K.A. Fairey,
R.A. Guihot, M.Y. Hassein, P.S. James,
J.M. Jensen, P.A. Kirsch,
N.A. McLaren, N. Monzu, B.E. Roberts,
A. Rosel, S.B. Sexton, S.M. Stanley,
H.A. Stanley, H.A. Standfast,
F.G. Swindley, S.M. Waladde,
M.J.C. Warner, G. Watson.

ADDRESS CHANGES

Please help us to address your Society publications correctly by promptly forwarding to the Secretary any changes or corrections to your current title, name or address. In the following list of up-dates the State or Country of previous address is given in parentheses.

- MR M. ARURA, Bubia Agricultural Research Centre, P.O. Box 73, Lae, Papua New Guinea (PNG).
- MR A.F. ATKINS, 45 Caldwell Avenue, Dudley, NSW, 2290 (NSW).
- MR K.P. BODNARUK & MS J. SEMPLE (Joint members), 7 Rhyde Street, Toowoomba, QLD, 4350 (NSW).
- MISS G. CAON, Agriculture Department, G.P.O. Box 1671, Adelaide, SA, 5001 (SA).
- DR J.M. DEARN, School of Applied Sciences, Canberra College of Advanced Education, P.O. Box 1, Belconnen, ACT, 2616 (VIC).
- MR R.P. DYER, P.O. Box 242, Keith, SA, 5267 (SA).
- MR B.A.B. EDWARDS, 56 Terrara Road, Vermont, VIC, 3133 (VIC).
- MR M.B. FLETCHER, P.O. Box 56, Launceston, TAS, 7250 (ACT).
- MR D.H. FOLEY, 137 Hilda Street, Corinda, QLD, 4075 (QLD).
- MR D.G. GILTRAP, 4 Sussex Street, Epping, NSW, 2121 (NSW).
- DR W.W.K. HOUSTON, P.O. Box 119, Lyneham, ACT, 2602 (ACT).
- DR P.M. IVES, Entomology Dept., 219 Hodson Hall, University of Minnesota, St Paul, Minnesota, USA 55108 (NSW).
- DR LIU SHU-SHENG, Dept. of Plant Production, Zhejiang Agricultural University, Hangzhou, Zhejiang, Peoples Republic of China (ACT).
- MRS P. MOTTRAM, 87 Mareeba Road, Ashgrove, QLD, 4060 (QLD).

MR D.R.J. SMITH, Biotechnology Australia Pty. Ltd., P.O. Box 20, Roseville, NSW, 2069 (NSW).

MR M.F.J. TAYLOR, P.O. Box 436, Toowong, QLD, 4066 (QLD).

MISSING MEMBERS

We have lost contact with the following members. It would be appreciated if anyone knowing their current address could advise the Secretary at his address inside the front cover.

Dr P.C. Nigam (formerly of Ontario, Canada).

Dr M.J. Smart (formerly of Karrinyup, WA).

Mrs J. Tan Choo Haw (formerly of Singapore).

MACKERRAS MEDAL DONORS

The Society wishes to record its appreciation to the following recent donors to the Mackerras Medal Memorial Fund:

Anonymous
Dr T.E. Bellas
Dr F.H. Drummond
Dr & Mrs G. Ettershank
Dr N. Gough
Dr K.L.S. Harley
Mrs P. Kleinschmidt
Dr D.C. Lee
Dr B.P. Moore
Eric J. Reye

CORRECTIONS

The following corrections should be made to the article entitled "*Pseudotaenia waterhousei* - alive and well in NSW" published on p. 17 of News Bulletin Vol. 20, Part 1 (Feb, 1984):

para 2, line 5: "mid-October" should read "mid-December".

para 2, line 14: longitude of Monia Gap is 145°58'E.

References: "HAWKESWOOD, T.O." should read "HAWKESWOOD, T.J.".

REGIONAL NEWS

**AUSTRALIAN CAPITAL
TERRITORY**
CSIRO Division of Entomology

In late March and early April, Penny Greenslade from the South Australian Museum, Dave Rentz, Ted Edwards and John Feehan had a three week adventure on Norfolk Island and nearby Philip Island. They survived dangerous boat landings and became expert rock climbers in their search for insects and other arthropods. Penny was interested primarily in Collembola. John ran intercept traps and berlese funnels and collected ants, termites and, of course, dung beetles. Dung beetles, which were introduced to Norfolk Island, are doing an excellent job of removing the cattle dung. Ted ran light traps; he reported that the microlepidoptera were considerably more diverse than previously had been thought. On Norfolk Island Dave collected 20 species of Orthoptera, including two species of grasshopper and crickets of the genus *Teleogryllus*, and seven to eight species of *Blattodea*, including the ubiquitous *Periplaneta americana* which fed largely on fish regurgitated by the Noddy terns. There were no cockroaches on Philip Island and, in place of the American cockroach, a cricket fed on the regurgitated fish. Another trip, but with only two entomologists, is planned for September this year.

Tom Weir and Andrew Calder spent two weeks collecting at Cape Tribulation and the Atherton Tableland in late March and early April.

Dr Lubomir Masner from the Biosystematic Research Institute in Ottawa, Canada, arrived at the ANIC in mid January to spend three weeks working on proctotrupoid wasps, and manuscripts coauthored with Ian Naumann. During his stay, Lubomir gave an interesting talk to the Taxonomy Group on 'Field work in biosystematics; philosophies and strategies'. On January 8, Lubomir and Ian headed north, collecting en route to Brisbane. They visited the Australian Museum in Sydney, the Barrington Tops National Park, the New England area, and the Border Ranges National Park.

Robert Raven arrived in Canberra in early February to spend the second year of his CSIRO Post-doctoral Fellowship at the

ANIC. Robert spent 1983 at the American Museum of Natural History researching the taxonomy and phylogeny of mygalomorph spiders. He will be continuing his work at the ANIC.

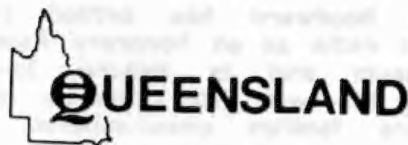
The ANIC had a number of interstate visitors from mid January to mid April. Saartje Rondonuwu, from the Waite Agricultural Research Institute in South Australia, spent three weeks working principally on genitalia dissections of *Uracanthus* spp. (Cerambycidae). Geoff Holloway, from the Australian Museum, spent a day looking at Ichneumonidae. Graham Brown, from the Taxonomy Section of the BCRI at Rydalmere, visited briefly to talk to Ian Naumann about Thynninae. Woody Horning, from the Macleay Museum in Sydney, spent a couple of days in late February talking to curators and examining Macleay Museum specimens that had been deposited in the ANIC. Dinah Hales, from Macquarie University, visited Mary Carver in late February to examine the chromosomes of a native aphid, *Neophyllaphis gingerensis* Carver, collected on *Podocarpus* on Mt. Gingera in the ACT. In mid March, Daniel Bickel from Melbourne spent a week examining flies of the family Dolichopodidae, and David McAlpine and Barry Day visited the ANIC while in the ACT for a collecting trip to the Brindabellas. Ian Common, who now lives in Toowoomba in Queensland, returned to the ANIC in early April for a week working on the taxonomy of the Oecophoridae; Ian is preparing a checklist of the family. On April 2, Meg Lowman, from the University of New England, gave a talk to the Taxonomy Group on insect herbivory in Australian rain forests. Many of the insects that Meg collected in the rain forests were identified by the ANIC taxonomists. Alan Yen, from the Museum of Victoria in Melbourne, also visited the ANIC on April 2.

The ANIC had three overseas visitors: Prof. Emeritus Woodrow W. Middlekauff, from the University of California in Berkeley, spent a week in February examining sawflies and tabanids, and collecting sawfly larvae; Mr Jacques R. Helfer, from Mendocino in California, was busy for several weeks pursuing his interests in Australian natural history and buprestid taxonomy; and Prof. Dr H. (Jim) Markl, from the University of Konstanz in Germany, arrived in early April to spend a month studying ant behaviour, especially sound communication.

Aust. Nat. Univ. - Zoology Dept.

On February 15, David McCorquodale arrived in Australia from the University of Alberta in Canada, where he recently completed a M.Sc. on digger wasps and their miltogrammine nest parasite. David has commenced a Ph.D. on 'Factors influencing communal nesting in *Cerceris* spp. (Hymenoptera : Sphecidae) in south-east Australia'. Two people from the CSIRO Division of Entomology have commenced part-time higher degree studies in the Zoology Department in the last two months: Se Pyong Kim is revising the taxonomy of the Australian Homoneurinae (Diptera : Lauxaniidae) and Russell Moran is studying the systematics of the Australian Gnaphosidae, especially the genus *Lampona* Thorell 1869. Paul Jupp, an Honours candidate, is studying the selection and evaluation of strains of entomophthoran fungi for use against *Myzus persicae*; this work is being carried out in association with Richard Milner in the CSIRO Division of Entomology. John Vranjic, another Honours candidate, is researching the taxonomy and biology of *Eriococcus coriaceus* and *E. confusus*. Kym Day and Jo Smith recently began their Graduate Diploma in Science; Kym is investigating geographic variation in scolopendromorph centipedes and Jo, who is supported by the NSW National Parks and Wildlife Service, is studying ant ecology at Kinchega National Park.

Penny Gullan
Regional Councillor

Queensland Agricultural College

Errol Hassan will attend the 27th International Entomological Congress at Hamburg at which he will present a paper. After the Congress, he will visit the Biological Control Institute in Dormstadt, as well as visiting some chemical companies. After Germany, Errol will spend 4 months in the United States visiting the Biological Control Centre in Berkeley and other Educational Institutes.

Bill Palmer of the Queensland Lands Department's Texas Research Station visited

the Department and delivered a lecture to the fourth year Plant Protection and Graduate Diploma students on the development of biological control of groundsel bush. In co-operation with the Lands Department, and under Errol Hassan's supervision, a Graduate Diploma student in Plant Protection undertook a project studying the development and dispersal of groundsel bush gall fly.

Peter Gregg and his assistant from the University of New England visited Errol Hassan recently. They spent a day collecting insects in the College's Field Section and setting up a light trap for night collection.

Drs Marshall Kirby, Chuck Schwalbe and Vic Mostro of U.S.D.A.'s Plant Protection and Quarantine Programme visited Drs E. Hassan and John Swarbrick. Discussions were held on the biology and biocontrol of silverleaf night-shade and pathogens attacking insects, sterile male techniques and pheromones used for mass trapping and disruption.

Keith Bodnaruk gave a 2 hour lecture to the Plant Protection and Graduate Diploma students on SIRATAC and demonstrated its use.

Alan Fletcher Research Station

Rachel McFadyen and Brian Willson will be attending the 6th International Symposium for the biological control of weeds to be held in Vancouver in August.

Bill Haseler has recently returned from Norfolk Island where he provided expert advice on weed control.

Rachel McFadyen has recently returned from north Queensland where she inspected release sites for biological control agents of parthenium weed. Rachel will also be heading south in the near future where she will advise shire councils in southern New South Wales on control of parthenium and rag weed.

Work on the Charters Towers Research Station is progressing at a satisfactory rate and it is anticipated the building will be opened in mid-winter. It is expected that the following positions will be advertised in the near future: Officer-in-Charge (1), Entomologists (2), Agronomists (2), Extension Officer (1), Experimentalists (4).

Queensland Institute of Medical Research

On the 9th April, Richard Piper took up his appointment as entomologist to the State

Vector Control Unit. This unit, which is based in Cairns, has the following terms of reference: studies of water impoundments in relation to the exacerbation of disease and pest problems (Ross Dam Stage II, Burdekin Dam, Mareeba and Burdekin rice fields); sero-epidemiological surveys for arbo virus infection; evaluation and development of mosquito control methods; the training of local authority personnel. Richard can be contacted through the District Health Officer, Shields Street, Cairns.

Forestry Department

Ross Wylie returned to South Australia in late February where he obtained parasites and predators of *Ips grandicollis* for release and establishment in Queensland.

CSIRO Long Pocket Laboratories

Peter Room spent 2 weeks in April at BIOTROP, Bogor, Indonesia where he conducted lectures on biocontrol and attended a regional symposium on weed science.

Ken Harley recently spent a month in Mexico setting up a field station for exploratory studies for the biocontrol of *Mimosa pigra*.

Department of Primary Industries

Dr Lubomir Masner of the Biosystematics Research Institute, Canada visited Brisbane from February 26 to March 9 to work with Ian Galloway at the Indooroopilly laboratories. Dr Masner is the leading world authority on proctotrupoid wasps. Whilst in South-east Queensland Dr Masner accompanied Ian on collecting trips to Cooloola National Park, Mt. Glorious and Mt. Tamborine. On 9th March Dr Masner addressed a group of Brisbane taxonomists and Entomology staff on the philosophy of biosystematics and his recent advances in collecting techniques.

In early April Barry Ingram (Applethorpe) attended a phylloxera workshop at Rutherglen, arranged by the Victorian Department of Agriculture. Following the workshop Barry called in on CSIRO (Canberra) and the NSW Department of Agriculture (Orange) for discussions on predatory mites in citrus.

Quarantine entomologist John Turner has recently returned from another trip to Torres Strait where he conducted surveys for the sugar cane leafhopper and other exotic pests.

Bernie Franzmann and Peter Twine (Toowoomba) and Dave Murray (Emerald) attended a SIRATAC meeting in Narrabri. The problem associated with pyrethroid resistance once again dominated discussion.

University of Queensland

Congratulations to Clyde Wild of the Alan Fletcher Laboratory on the awarding of his Ph.D. degree. Clyde's thesis was entitled "The influence of meteorological factors on the capture of *Culicoides* in flight (Diptera : Ceratopogonidae).

Congratulations are also due to Manochai Keeratikasikorn of Thailand who was awarded a Ph.D. degree for his thesis entitled "Initial studies towards the implementation of a pest management system for the control of potato tuber moth, *Phthorimaea operculella* Zeller, in southeastern Queensland".

Vivienne Harris visited Narrabri in early April to familiarize herself with the SIRATAC programme and other recent developments in cotton entomology.

Griffith University

Dr Mark Westoby of Macquarie University and President of the Australian Ecological Society recently visited Brisbane to deliver the Michael Sabbath memorial lecture and consult with staff and graduate students. The title of Dr Westoby's address was "Constructive ecology; how to build and repair ecosystems".

Queensland Museum

Tom Woodward has settled into his retirement niche as an Honorary Associate at the Museum and is looking forward to continuing his work with Lygaeidae and other Heteroptera families unencumbered by his former lecturing schedule at the University of Queensland.

Geoff Monteith spends three weeks in New Caledonia in May collecting insects on the higher mountain massifs there. The trip is funded by ARGS and is aimed at obtaining material for comparison with the summit faunas of North Queensland mountains which have been sampled over the last few years. The two areas share many taxa of apparent gonwanic origin. Doug Cook, veteran of much mountain field work, will accompany Geoff.

Peter Mackey, of the Capricornia Institute of Advanced Education in Rockhampton, visited

the Museum for a couple of days in mid-April to examine the moth collections in connection with his long term moth sampling project on the CIAE campus.

Rudi Kohout departs on July 6 on a 2 month private trip to the Solomon Islands and Papua New Guinea for the purpose of collecting ants of the genus Polyrhachis. He hopes this material will sort out many of the taxonomic problems he has encountered in his studies of the North Queensland species.

Ian Galloway
Regional Councillor

NORTH QUEENSLAND

Clyde Wild from the Alan Fletcher Research Laboratories in Brisbane visited the north briefly in February in connection with work he is starting on Mimosa invisa, giant sensitive plant.

Ross Hall visited Mareeba for a few days to discuss parasitism of Heliothis with Ian Titmarsh. Ross is enrolled for a Ph.D. at James Cook University in Townsville under Rhondda Jones, the subject being studies on parasite searching capabilities.

Iain Kay visited Mareeba briefly to have talks with Ian Cunningham and to attend research planning meetings with the rice industry.

Lubomir Masner, scelionid specialist from Canada, spent a week or so collecting Hymenoptera in the Coastal and Tablelands area. He was accompanied by Ian Galloway for part of the visit and good samples were taken in several localities.

Joe Sedlacek Jr. and Beryl Turner spent several weeks in the Tablelands on their way to Eungella, after several months collecting in the Bamaga area and Torres Strait. Many good captures, especially weevils, were made.

Tom Weir and Andrew Calder from the ANIC in Canberra spent two weeks collecting beetles in the north in March. One week was spent in the Cape Tribulation area, the rest on the Tablelands. Though numbers had generally tailed off, some useful material was obtained.

John Young visited Mareeba in March with Hans Beste of Julatten. John has developed an interest in butterflies over the last few years and has had good success in both

collecting and breeding many less common species.

Both Neil Gough and John Turner are due in the Torres Strait area in late April, in connection with Quarantine work on the islands.

Brian Kay and Richard Piper visited Mareeba in April to check on mosquitoes breeding in the area. Richard is being employed by the Health Department as part of a mosquito abatement programme and is based in Cairns.

Ross Storey
Regional Councillor



NORTHERN TERRITORY

Health Dept., Medical Entomology Branch

A wet season mosquito survey of the Victoria Highway and general Victoria River Downs (VRD) area was completed by early April. This was to determine the distribution of various Anopheles species and to check for the presence of Aedes aegypti. It was noticed early that Aedes normanensis numbers were very high, but many thousands of specimens still awaited identification at the time. The surveys were carried out by Geoff Davis, Wendy Kelton and Andrew Masters, who has recently joined the Branch as a Technical Assistant.

The Department's publicity programme 'Mosquito Week' generated high public interest. Posters, pamphlets and bumper stickers of excellent standard were produced by its Health Education Unit. The effort is complementary to the Commonwealth's Mosquito Eradication Programme, to which the Branch is a technical advisor.

A programme for engineering works on various mosquito breeding grounds in Darwin is currently underway and Mr Kevin Hodder has been assisting in mapping sites for rectification. The Branch is also investigating potential biting insect problems associated with various development projects. Tindal and proposed residential areas are being studied by Geoff Davis, Wendy Kelton and Andrew Masters, rural areas by Kevin Hodder and the

new airport and power station areas are Peter Whelan's responsibility.

D.P.P. Weeds Section

In March John Gillett took up a 2½ year appointment as an Experimental Officer with the CSIRO Division of Entomology, and will be based in Mexico. This is part of an ACIAR-funded research programme aimed at developing management strategies for *Mimosa pigra* in Thailand. John has worked on the weed in the NT in conjunction with Dr Ken Harley and other CSIRO staff, and two seed-feeding bruchids were released here last year as part of that effort.

The present programme, which also involves Thai research organisations, has a number of components. John's role will be to carry out further exploration for potential control agents in the native range of the weed. At the time of reporting, his Mexican address is not finalised.

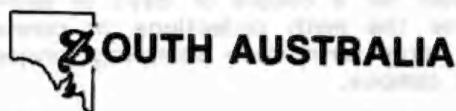
D.P.P. Entomology Section

Mr Marshall Kirby, USDA Entomologist visited the Top End for a few days in early March. With Alan Allwood, he looked at crop production, especially of fresh fruit and vegetables in the light of possible quarantine implications of export to the USA. Heavy rains in the Katherine area at the time resulted in their using a helicopter to gain access to the big mango development at Manbulloo. There is great scope for major expansion of mango production in the Top End generally, because it has an early season and the NT's freedom from mango seed weevil could lead to export advantages.

D.P.P. Agricultural Quarantine Service

Ted Fenner attended the Plant Quarantine Entomologists' meeting in Sydney in early March and also visited colleagues in Queensland DPI at Indooroopilly and Kamerunga in connection with this field of interest with special reference to Australia's 'Deep North'.

Ted Fenner
Acting Regional Councillor



South Australian Museum

Gordon Gross and Dzintra Lacis are updating and storing on disc Gordon's Catalogue of the Australian and South West Pacific Heteroptera. The catalogue includes taxonomic, biological and economic references to each species and print-outs of sections of the catalogue will eventually be available to entomologists for a small fee. Penny Greenslade joined members of ANIC on a three week field trip to Norfolk Island and its precipitous outlier Philip Island.

University of Adelaide, Zoology Dept.

Shelley Barker is at the British Museum for 3 months studying the buprestid collection. He will also be visiting collections in Paris and Belgium.

CSIRO Division of Soils

Ken Lee visited Queensland for talks on sugar cane pests and John Greenslade had to abort his traverse of the Great Victorian Desert from east to west due to vehicle problems but instead sampled a series of arid sites further east. There has been much media publicity concerning the millepede problem in and around Adelaide and the State Government have now granted \$4000 to enable Geoff Baker to visit Portugal and collect a biological control agent.

Department of Agriculture

A relatively quiet summer, as regards fruit fly (3 outbreaks of *Dacus tryoni*), was enlivened by the discovery of a nest of *Vespula germanica* near Adelaide on 10th January. A total of 8 nests have been found and destroyed. The only other record of *V. germanica* in South Australia was a nest found in 1978.

Dr Ken Summerfield, New Zealand Ministry of Agriculture and Fisheries, visited the Department's Pest Eradication Unit and Northfield Research Laboratories on March 12-13th to discuss and examine the State's approach and policy on the detection and eradication of fruit flies.

Peter Birks and Greg Baker attended the S.C.A. Workshop on grape phylloxera

Daktulosphaira vitifoliae (Fitch), held at the Rutherglen Research Institute by the Victorian Department of Agriculture, April 4-5th, 1984. Aspects of the distribution, biology, ecology and control of phylloxera, and quarantine policy and procedures were covered.

Waite Institute, Entomology Department

The Department of Entomology is in a period of turbulence, one of the reasons is because the Department is under review. The Review Committee consists of Professor M.J. Way, (the Chairperson, Imperial College, London), Professor E.S. Sylvester (University of California), Emeritus Professor D.S. Kettle, Professor J.P. Quirk (Director, W.A.R.I.). The terms of reference are:

1. To review the research, postgraduate and other activities of the Department of Entomology and to make recommendations about long term research goals.
2. To examine relationships with other departments within the Institute and the University and report on the extent of inter-disciplinary research.
3. To report on undergraduate teaching.
4. To comment on the balance between basic and applied research in the Department.

The review is apparently necessary before the appointment of a new Professor.

Dr L. Bailey, one of the world's leading experts on Bee diseases and ex-Rothamstead Experimental Station, visited Adelaide for 4 weeks in October-November, 1983 to examine imported leafcutter bees (*Megachile rotundata*) from New Zealand. The bees were introduced into quarantine on the premises of the SA Dept. of Agriculture, and Dr Bailey killed and examined every one of them for virus, bacterial and fungal pathogens. The introduction of the bees was phase I in a planned introduction of the bees in SA for the pollination of lucerne seed crops.

Peter Allen submitted his thesis on the 6th April and now claims he has "too much time on his hands". Hopefully, by the end of April, Paul Bailey and Ramesh expect to submit their theses. Paul is then heading off to Queensland to work with Roger Kitching on foraging behaviour of predators in citrus. Also leaving the Department are George

Hoffman, Alan Berryman and Earl Oatman. George will be commencing a Ph.D. in Wisconsin.

A brief visit by Professor Gage was made to the Department after the lecture given at Northfield laboratories. Fred Neumann, Victorian Forestry Commission, Ross Wylie, Queensland Forestry Commission and Cliff Ohmart, CSIRO Division of Forest Research, Canberra, visited the Department for discussion with David Morgan and Simon Lawson on the *Ips* biocontrol programme. Discussions on the interaction of leaf oviposition and the development of herbivorous insects were had between Peter Miles and Cliff Ohmart. On May 2nd, Drs P. Yingchol and J.M. Schiller will visit the Department. Dr Schiller is State Development Adviser, Bangkok, Thailand.

Towards the end of May, Peter Miles will go to New Guinea (on a special Grant) for 2 months, working on the phytotoxicity of a cocoa pest. Almost immediately after, he heads overseas to the International Congress of Entomology in Hamburg, and then on to America to work with Dr Loomis at the Department of Biochemistry and Biophysics, Oregon State University until the 1st June, 1985.

Peter McQuillan (Tasmanian Dept. Ag.) arrived for two weeks' training prior to his Department's participation in a co-operative research programme on *Aphodius* control by Metarhizium.

Stephen Were from the University of Adelaide has been appointed as a Research Associate on a grant in Insect Pathology. Stephen is an organic chemist working on the isolation of exotoxins of Bacillus thuringiensis.

Ms. Tery Stone, recently graduated Dux of the course from Roseworthy Agricultural College, has commenced work on epizootiology of bee diseases as a Technical Assistant. Another Technical assistant to have recently started is Miss Lynette Tilley.

Tony Molyneux has been awarded a URC Scholarship to undertake a Ph.D. He will work on cytoplasmic incompatibility of mosquitoes. Tony was formerly of the CSIRO Division of Entomology in Hobart working with Robin Bedding's nematode group.

Dudley Pinnock has been formally invited to organise the Vth International Colloquium on Invertebrate Pathology in 1990. It will be the

first time that the International Colloquium has been held outside USA or Europe.

Miscellaneous

Meanwhile the millipede menace around Adelaide magnifies monthly and is made much of by media - as exemplified by the following Editorial from the Adelaide Advertiser of March 17:

"Multiplying Millipedes"

"The maddening month of March, as every year for two decades now, sees again the marauding march of the multitudinous menace that is millipedes. In misty autumn they emerge from their mouldy mounds of mulch to make misery for Hills residents, migrating in messy masses at the rate of about 200 metres a time and breeding mightily. These myriads of myriapods, although matters of mystery, even merriment and mirth, to Plains dwellers, are a physically minor menace, mostly moist and smelly; but the ill-mannered monopolies they make on the mansions of the Hills do minimise human morale and maximise an almost morbid mental mayhem.

It is manifest that management is needed for these malevolent midgits. Motions have been put to public meetings, monotonous committees have been formed, the media have been mobilised and Senator Messner has manifested the term "millipedosis" for the human malady. Chemical sprays and minor mechanical means of marring the malaise have never properly mashed the marauders, while major attempts at mastering the matter, such as research into introducing predators from the millipede's native Portugal, have mouldered in the political mires. Perhaps one of Adelaide's great chefs could develop a way of marinating the millipede so it might appear on the menus as a tourist magnet.

Meanwhile, the metaphilosophical Hills residents, deep in their annual mulligrubs, mutter that only a march on Parliament House in North Terrace by these measly and maggotty masses could motivate politicians to move away from more mundane matters. Among the migrating Festival and Fringe performers there must somewhere be a masochistic Pied-Piper-like meistersinger who might lead this magnificent march."

Penny Greenslade
Regional Councillor



IREW SOUTH WALES

Biological and Chemical Research Institute

Visitors to the Institute included John Moulden, Western Australian Department of Agriculture to see Graeme Baker about the wingless grasshopper and Marshall Kirby, USDA Animal and Plant Health Inspection Service, to discuss insect pest occurrence in fruit and other produce.

Narelle Sales has replaced Marjorie Balfe as Technical Officer in the Sheep Blowfly Unit. Marjorie has gone to Tamworth to work with Robin Gunning.

Eberhard Schicha and Moreno Julli collected plant feeding mites and their predators in the Ben Boyd and Kosciusko regions in mid February and in the Bathurst, Orange and Yanco areas in late March.

Murray Fletcher's Argentine Ant Project has been funded for a further three months and Marnie Holmes has recommenced work thereon.

Murray Fletcher, Royce Holtkamp and Alan Westcott collected insects in the Trangie, Macquarie Marshes and Warrumbungle areas in mid March.

University of Sydney

Fred McDonald is off to London in May to spend four weeks working at the British Museum and other Institutions on Pentatomidae and Tessaratomidae.

Harley Rose and entourage spent Easter at Pilliga Scrub looking for Geoscapheus dilatatus, a large blaberid cockroach.

Gorden Reidy has started a Ph.D., on comparative toxicology of rats and Spodoptera litura. Andrew Kotze is studying Glutathione transferases in Lucilia cuprina for his Ph.D. Scott O'Neil is doing an honours project on the behaviour of Blaberidae.

CSIRO Warrawee

Cho Hua Sim, Entomologist in Sabah, Malaysia and Marshall Kirby, USDA, both visited Alan Bateman in March to discuss fruit flies and their control.

Peter Ridland from the Victorian Department of Agriculture visited Warrawee in March to discuss aphids with Paul Wellings.

Australian Museum

Over the past few years the Newcastle College of Advanced Education has been conducting a course in natural history illustration. This is the only course of its kind in Australia. Postgraduate students can enter on the basis of an arts degree or a science degree. The students of the course have been using the Museum especially the Entomology Department. The staff of the Department have been discussing the various aspects of natural history illustration, the potential and actual resources available and the uses and employment opportunities for illustrators.

Geoff Holloway has been conducting a course on insect collecting and preparation. This has turned out to be a very popular course and it will probably become a regular event.

Courtenay and Smila Smithers, and Barbara Duckworth have had a very successful collecting trip to Barren Grounds Nature Reserve - but failed to see the rare Ground Parrot!

Work on the new insect exhibit is forging ahead - anticipated opening time is late this year.

Commonwealth Institute of Health

Richard Russell spent 3 weeks in December 1983 in Tonga, Samoa and the Cook Islands as a consultant with W.H.O. on mosquitoes. In the Cook Islands Richard taught a course on vector control.

Joan Bryan and Richard Russell spent January and February monitoring mosquito populations and developing control methods with the NSW Department of Health in Griffith where Ross River Fever has become a problem. Joan and Richard have also just completed a statewide survey for Aedes aegypti (L.), the vector of dengue fever in Queensland. They fortunately were unable to find the species in New South Wales.

Joan is off to England and Rome for two months to follow up projects in which she was involved in West Africa.

M.J. Fletcher
Regional Councillor

NSW COUNTRY NEWS

Orange Agric. and Vet. Research Centre

Bob Prior, senior entomologist with the Palm Oil Research Association, West New Britain, Papua New Guinea, visited Orange in early January to inspect facilities and to talk about biological control projects with Graham Thwaite and Colin Bower. A more recent entomological visitor to the centre was Barry Ingram, Queensland DPI, Stanthorpe who discussed progress in Pome Fruit research in April. CSIRO's Les Readshaw joined forces with Col Bower at an integrated mite control field day at Bilpin, West of Sydney during February.

Yanco Agric. Research Institute

Ed Jones and CSIRO's George Rothschild report the successful implementation of commercial dispenses of the Oriental Fruit Moth mating disruption pheromone in peach orchards around the MIA. Christine Stone was recently interviewed by a Sydney radio station as a past winner of a Caltex Womens Scholarship who had chosen entomology as her career.

Narrabi Agric. Research Station

Professor Tom Miller of the University of California has recently returned to the United States after a 3 month stay in Australia looking at pyrethroid resistance in Australian Heliothis armiger.

University of New England

Craig Kelly has started work as a research assistant for Peter Gregg, studying the development rate of the wingless grasshopper. Craig is awaiting the results of his Honours thesis on 2 spotted predator mites.

Vic Edge, Assistant Director of Entomology, Biological and Chemical Research Institute, Rydalmere, recently spoke on insecticide resistance at an AVCA seminar held at the University of New England.

Tamworth Agric. Research Centre

Robin Gunning visited the USA and Southern Africa in January to discuss pyrethroid resistance in Australian Heliothis armiger. Robin gave a paper on this subject to the Beltwide Cotton Conferences, Atlanta, Georgia in early January. Visitors to Tamworth to discuss Heliothis resistance have

been Prof. Tom Miller of the University of California and Dr Carl Goodpasture, USDA, Mississippi, and Dr Takaaki Ito, Sumitomo Chemical Co., Japan

Robin Cunning
Regional Councillor



Plant Research Institute, Burnley

Dr Doug King, from M.A.F., Hamilton, N.Z. visited Terry Amos on his way to a Phylloxera workshop at Rutherglen in April. Both Terry and Greg Buchanan also attended the workshop. Greg Baker from the Northfield Laboratories, Adelaide visited several of the field crop entomology team at Burnley in April to discuss work on rapeseed pests.

Dr Takaaki Ito and Mr Ken Fujiwara from the Sumitomo Chemical Co. (Japan and Australia respectively) visited Garry McDonald to discuss insecticide resistance in armyworms, also in April.

Peter Ridland visited Paul Wellings and Wendy Milne at CSIRO, Warrawee in February to discuss various aphid projects.

Stuart Gage visited New Zealand in late February, where he presented a seminar at Lincoln College, Christchurch. In March he visited the Northfield Research Laboratories and the Waite and spoke to several entomologists.

At the beginning of April four new staff began work at Burnley assisting Lindsay Crawford and Rob East on the European Wasp programme. They will be concentrating on the extension and education aspects, and are employed for 12 months under the Community Employment Programme.

Four staff have also joined the staff at the Agricultural Chemicals Application Research Unit at Frankston. They will be employed for 12 months to develop a spray machine testing programme there.

La Trobe University, Zoology Department

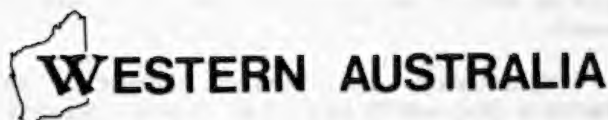
Ian Thornton of the Zoology Department, La Trobe University, is leading an expedition to Krakatau to survey the fauna of the islands, and adjacent areas of Sunda Strait.

Besides himself, entomologists in the party will include Tim New from La Trobe and, it is hoped, several postgraduate students; Alan Yen from the Museum of Victoria; and Mark Harvey from CSIRO, Canberra. Specialists interested in examining material and who would be able to provide a preliminary report within one year of receipt should contact Professor Thornton.

Professor Sinzo Masaki, of Hirosaki University, Japan, visited the Department in January.

Mr P. Keith, Honours Zoology graduate, wrote a thesis on "An ultrastructural, histochemical and analytical study of the copper accumulating region of the midgut of *Ephydrella n.sp.*". His supervisor was Dr A.T. Marshall.

Gordon Berg & Tim New
Regional Councillors



WA Department of Agriculture

A visitor to the Department in March was Dr Ken Somerfield of the New Zealand Department of Agriculture and Fisheries, Lismore, NZ. Ken was concerned with eradication and control measures for fruit fly and his travels took in the Carnarvon fruit growing area.

Department staff recently located and destroyed two nests of the European Wasp in Perth and another two at Albany.

WA Forests Department

Dr Ian Abbott was appointed to entomological duties late last year. His three priority areas for research are the Jarrah Leaf Miner, the impact of insects on leaf dynamics and the incidence and cause of cerambycid beetle attack on Karri. He will adopt an experimental approach towards these studies.

University of Western Australia

David Cook has commenced a Ph.D. on dung beetle mating behaviour under the joint supervision of Win Bailey and James Ridsdill-Smith (CSIRO). Ms Gunn Dolva has now narrowed the subject of her Ph.D. project

to the reproductive biology of nemobiine crickets in Jarrah forest.

The training of Thai entomologists has commenced through the University's School of Agriculture. Two students who have begun Masters projects are Mss Amara Traisiri and Charuwan Supasatian. They are studying aspects of the biology of aphids and Mediterranean Fruit Fly, respectively. Three other students have commenced preliminary Masters training.

Peter McMillan received his M.Sc. Degree in April for a thesis on the biology of the Twig-mound Ant, *Iridomyrmex conifer*. Although retired now, Peter remains busy with field work and lecturing to various groups.

CSIRO Division of Entomology

Geoff Baker of the Division in Adelaide visited his Perth colleagues in January and toured the South-West looking at helcid snails. He also visited Geraldton in company with Peter Davis of the Department of Agriculture.

WA Museum

Terry Houston joined a Museum survey party for three weeks in February and March to work the country fringing the Great Australian Bight (Israelite Bay to Eucla). Insect collecting was hampered by often unfavourable weather but the booty contained sufficient number of 'rare' species to have made the trip worthwhile. A return trip is planned for spring.

Terry F. Houston
Regional Councillor



TASMANIA

Graddon Johnstone recently returned from 4 weeks in the UK visiting various institutions working on plant virus research. He also attended the 40th Easter School at the University of Nottingham on "The pea crop - a basis for improvement".

Peter McQuillan spent a fortnight in March at the Insect Pathology Laboratory at the Waite Institute in Adelaide, working with Dudley Pinnock and Robin Coles on pathogens of pasture pests. While there he was also able to catch up on contacts at the SA Museum and Department of Agriculture. Laurie Miller is due to return soon from his Churchill

Fellowship-sponsored visit to USA and Europe where he has been visiting laboratories researching nematodes as pest control agents.

John Lancashire (DSIR) a plant breeder based at Palmerston North, NZ visited Tasmania in late March and had discussions with Peter McQuillan and pasture agronomists regarding the role of resistance to insects in pasture varieties.

In mid April, George Rothschild (CSIRO) visited local entomology groups in Tasmania to check to their progress and offer his support.

Soon after Easter, Penny Greenslade (SAM) will be visiting John Ireson to discuss their mutual interest in Collembola and, weather permitting, to get in some collecting.

Peter McQuillan
Regional Councillor

OVERSEAS NEWS



PAPUA NEW GUINEA

Phil Spradbery reports that Peter Cassells will be returning to Canberra at the end of April after 3 years work at the Screw-worm Fly Unit. Phil also tells us that further evaluation of chilled sterile-fly dispersal from aircraft has shown that flies can be released at up to 5,000 feet (1,500m) without any detectable decrease in survival rates. This will result in more comfortable altitudes for fly dropping in future SIRM trials. Phil visited Goodenough Island in early April to determine whether the island would be suitable for a major SIRM eradication trial. A reduction in cattle numbers and loss of many project cattle into the wild over the past few years suggests that the Goodenough Island eradication trial must wait a year or two. At present the facilities at the Laloki mass-rearing station are being upgraded. A new adult insectary will be constructed shortly, allowing for weekly production in excess of 20 million flies per week.

Jan Greve reports that D.P.I. Konedobu, has had a number of visitors which included Dr David Wrobik from the Smithsonian Tropical Research Institute (Panama). Dr Skatulla and Mr Albert Peters from the Samoan/German Crop Protection Project in Western Samoa arrived in

early February to collect parasites and predators of the coconut pest, *Brontispa longissima*, Dr W. Holleweg, from Vanuatu, visited to discuss possible projects for harvesting and farming of the giant African snail in P.N.G. Tim New, from La Trobe University, also called in at Konedobu before setting off to collect lacewings. Other news from D.P.I. is that the Crop Insect Survey, July 1969 to December 1978, (a continuation of earlier Survey reports) has now appeared in the P.N.G. Agriculture Journal 32 (1 to 4). It was also encouraging to learn from Peter Room that the biocontrol of *Salvinia* in the Sepik River is progressing well.

Jan Greve leaves D.P.I. at the end of April and will move to Australia to take up a position at the CSIRO Stored Grains Laboratory. We all wish him well in his new job.

Malchus Arura, previously based at Kerevat, has now moved to the D.P.I. station at Bubia (near Lae) where he will work on entomological problems of lowland food crops.

Elaine Brough visited C.I.E. (British Museum) while on leave in Britain and talked with many of the entomologists there as well as doing more detailed study on specific eurytomids with the help of Dr Zdenek Boucek. In February she attended the Fourth Plant Protection Meeting at the South Pacific Commission in Noumea and gave a report on Teaching and Research on Plant Protection at the University of Papua New Guinea.

Elaine J. Brough
P.N.G. Correspondent.



NEW ZEALAND

Mr Arthur Retnakaren, Div. of Entomology, CSIRO, gave a seminar entitled "Control of Forest Insects by Insect Growth Regulators" when he recently visited DSIR in Auckland.

Dr H. Shimanuki of the USDA Agricultural Research Service has been working in New Zealand at Mt Albert Research Centre. Dr Shimanuki is an authority on honey bee pathogens and is here at the request of the Ministry of Agriculture to investigate the "half moon" disorder of NZ honey bees.

Developments in Tasmanian horticulture were reported at a seminar by Mr J. Hardy of the Tasmanian Department of Agriculture. Mr Hardy is chief of the Fruit and Ornamentals section.

Dr Cliff Desch of the University of Connecticut has been in NZ for 3 months, working with Dr John Andrews at Victoria University Wellington. Cliff, who is a world authority on *Demodex*, has been collecting specimens from animals in NZ for further study.

Spider bites are apparently common in Australia - it seems no one gives them a second thought! In NZ we consider ourselves lucky that we have only very few venomous spiders and most of those are imports from across the Tasman. Our own *Latrodectus katipo* is potentially lethal and can usually make its victim very sick. It is with some chagrin therefore, that this correspondent reports that while on holiday this year, his wife was attacked by *L. katipo* and laid low for several days. Have they no respect even for entomologists!

John Tenquist
NZ Correspondent

NEWS FROM AFFILIATED SOCIETIES



ENTOMOLOGICAL SOCIETY OF NEW SOUTH WALES

The Society's A.G.M. was held on 7th March and the following office bearers were elected for 1984/85.

President:	M. Moulds
Vice-President:	J. MacDonald
Secretary:	D. Rugg
Treasurer:	T. Taylor
Editor:	D. Hales
Business Manager:	A. Clift
Circular Editor:	M. Fletcher
Councillors:	D. Scambler
	J. Anderson
	D. Jones
	D. Sinclair

Volume 16 of General and Applied Entomology, the Society's journal, will be published later this year. Some space remains for additional papers.

The Society has now completed its tape-slide kit "The Insect Who's Who" and it is now in the hands of the publisher (Sound Information) and has been advertised to schools.

The topic for the next general meeting on 6th May is "Current Research Topics" - short talks by several members on research projects.

The 4th August meeting will be "Insecticides and the Alternatives". Three leading scientists are to be guest speakers. We encourage both visitors and members to attend this important meeting.

Max Moulds
Representative Councillor



ENTOMOLOGICAL SOCIETY OF QUEENSLAND

The first meeting for 1984 was the Annual General Meeting held at the University of Queensland on 19th March. The Council elections were held and Officer Bearers for 1984-85 are as follows:

<u>President:</u>	Miss M.A. Schneider
<u>Senior Vice President:</u>	Mr B.K. Cantrell
<u>Junior Vice President:</u>	Dr R.W. Sutherst
<u>Honorary Secretary:</u>	Ms M. Elson-Harris
<u>Honorary Treasurer:</u>	Dr R.E. McFadyen
<u>Publication Committee</u>	
<u>Convenor:</u>	Mr I. Fanning
<u>Councillors:</u>	Mr E. Dahms
	Dr I.W. Forno
	Mr M. DeBaar

The main business of the evening was the Presidential Address of the retiring President, Dr R.W. Sutherst entitled "A Systems Approach to Livestock Pest Management".

Margaret Schneider
Representative Councillor

COMING EVENTS

Fourth Australian Applied Entomological Research Conference

To be held in Adelaide, 24-28 September, 1984. Theme of the SCA approved Conference is "Pest Control-Recent Advances and Future Prospects". The Second Circular will be sent out in late May to those who responded to the First Circular. Information from:

Dr P.E. Madge
Department of Agriculture
Box 1671, G.P.O.
ADELAIDE SA 5001

4th International Conference on Mediterranean Ecosystems

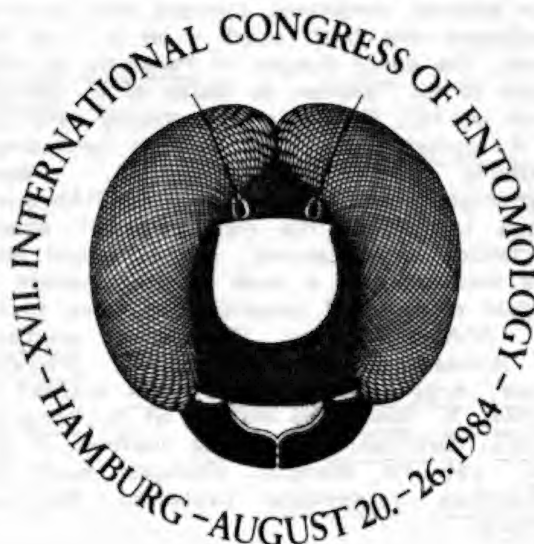
To be held at the University of Western Australia, 13-17 August 1984. Information from:

MEDECOS
Botany Department
University of Western Australia
NEDLANDS WA 6009

17th International Congress of Entomology

This will be held in Hamburg, West Germany, during the period August 20-26, 1984. Enrolment information is available from:

The Secretary
17th Internat. Congr. of Entomology
Zoologisches Institut der Universität
Biologiezentrum der Universität Kiel
Olshausenstrasse 40/60, D-2300 Kiel
FEDERAL REPUBLIC OF GERMANY



BOOK REVIEW

A Field Companion to the Butterflies of Australia and New Zealand, by B. D'Abrera, Canterbury, Victoria, Aust.: The Five Mile Press Pty. Ltd. 176 pp., endpaper maps, colour and black and white photographic illustrations. Recommended retail price: \$14.95.

A field guide to Australia's butterflies has been long and eagerly awaited - it is a pity that the gap in our literature has not been filled by D'Abrera's "Field Companion." D'Abrera's effort is a hotch potch of poor colour reproduction, many typographic errors (for which, admittedly, an author cannot always be held completely responsible), out of date nomenclature, misplaced illustrations, and figures of subspecies which do not occur in the area under consideration (this is, after all, NOT a field guide to the Australian region). The provision for making field notes is a complete waste of space, and the inclusion of information on field identification would have been of far greater benefit. Much of the text is lifted straight from D'Abrera's "Butterflies of the Australian Region", published in 1971, and includes irrelevant statements which should have been corrected or omitted. For instance, on p. 21, under Ornithoptera richmondia Gray, the author states: "Male and female as illustrated. The illustrations demonstrate the variability of the male". However, there is only a single illustration of a male, and none of the female. Very little serious effort seems to have gone into the preparation of this book, though at least this error is rectified in an accompanying corrigenda slip.

In several instances, current and obsolete nomenclature are both used - on p. 144 for instance, the early stages of Paralucia aurifer are said to be "Similar to those of P. aenea" while on p. 143, P. aenea is correctly referred to as P. pyrodiscus. This is most confusing, particularly to the beginner. Most lepidopterists would agree that it is D'Abrera's privilege to "follow his own counsel" where nomenclature is concerned, but it would lead to less confusion in a book of this nature if the latest recognised nomenclature were to be used. D'Abrera uses Oreixenica orichora flynni instead of the current O. orichora paludosa, Argynnina hobartia cyrila instead of A. cyrila, A. tasmanica instead of A. hobartia tasmanica, Oreixenica paludosa instead of O. latialis, yet he accepts changes such as Theclinesstes serpentata replacing Neolucia serpentata.

Apart from the use of extralimital subspecies to illustrate Australian subspecies, there are several confusing errors in illustrations - on p. 41, Delias nysa nysa underside is in reality a figure of the upperside of D. biaka as figured in "Butterflies of the Australian Region". Similarly, the female upperside is the figure of D. subviridis from the same work. On p. 169 the figures of Candalides xanthospilos are not this species, but Megisba strongyle, and on p. 173 this situation is reversed. On p. 143, the black and white illustrations of species of Acrodipsas are larger than life size, without a scale line being provided - this is confusing and inconsistent. However, by examining the size of the pin head one can get a rough idea of the magnification of these figures!

In many species the author's name is not placed in parentheses to indicate that in the original description, the insect was assigned to a different genus. This departure from recognised scientific procedure is unacceptable.

On p. 99, the distribution of Nesoxenica leprea elia is given incorrectly, perpetuating an earlier error of D'Abrera and other authors. Similarly, other distributional errors occur under Jalmenus icilius, J. daemeli, and Catopsilia pyranthe crokera, whilst no distribution at all is given for Jalmenus pseudictinus.

Other errors far too numerous to list in detail in this short review, render this book almost useless for the purpose for which it is intended - it cannot be considered as a serious contribution to the identification of Australian butterflies. D'Abrera has thumbed his nose at those lepidopterists whose passion for butterflies encompasses the skippers, or as he terms them "moths-with-social-pretensions". It is a pity, as this superfamily comprises an extremely fascinating portion of our butterfly (sens. lat.) fauna. D'Abrera's treatment of the New Zealand fauna may be more satisfactory, but not being familiar with the region, this reviewer cannot give an opinion on this minor portion of the book.

Not recommended for the serious lepidopterist, nor for that matter, for the beginner.

D.M. Reeves
Brisbane

OBITUARY



MICHAEL J.D. WHITE (1910-1983).

In the death of Dr M.J.D. White on 16 December 1983 the world has lost its leading cytogeneticist and the Australian Entomological Society an eminent member and former President.

Born in London in 1910, Michael White spent his boyhood and adolescence in Italy and France. He gained his academic education at University College, London, where he was on the staff of the Zoology Department in the thirties and forties, and then moved to the United States, becoming Professor of Zoology at the University of Texas. In 1953 he came to Canberra to work as a Senior Research Fellow in the Division of Plant Industry, CSIRO. After another short stint in the U.S., he was appointed Professor of Zoology at the University of Melbourne and later took the first Chair of the newly created Department of Genetics there. Upon his official retirement in 1975 he returned to Canberra and was accepted as a Visiting Fellow in the Research School of Biological Sciences of the Australian National University, where he was working up to a few weeks before his death.

Although his scientific interests were not restricted to any one group of animals, nearly all of White's own research was conducted on

insects, and within the insects primarily on grasshoppers and other orthopteroids. Soon after coming to Australia his attention was directed to the endemic grasshopper subfamily Morabinae and from then on he worked mainly on those peculiar insects. By the close of the 1970's he had determined the karyotypes of nearly 90% of the more than 250 species known in that group, often on the basis of material collected by himself on his numerous field trips. He showed that the great majority of the species had distinctive karyotypes and that many of them possessed intraspecific chromosome races distributed parapatrically. In 1962 he made the surprise discovery of a species of morabine in which males are unknown - the first record of thelytoky in the short-horned grasshoppers. This species, soon to be described as *Moraba* (later *Warramaba*) *virgo*, became a major object of his attention during the ensuing 20 years. He was able to confirm and greatly elaborate a suggestion from the U.K. that *virgo* was the result of a past hybridisation between two biparental species, and indeed to show that two distinct hybridisations had taken place, resulting in substantially different karyotypes that could well be given specific rank. This work rekindled an earlier interest in parthenogenesis generally, and during the last years of his life he was engaged in unravelling the highly complex relationships of several species or races of an unidentified genus of Phasmatidae, some biparental and some parthenogenetic - an undertaking he was unable to complete.

In addition to very numerous research papers, White published three major books that have been highly influential in the fields of cytogenetics, evolution, and speciation, and contributed to many others. He was a Fellow of the Australian Academy of Science and of the Royal Society of London, and recipient of a number of other high honours from learned societies in the United States, United Kingdom, and Italy.

Michael White was a tireless worker in the laboratory and in the field. He was an inspiring lecturer and a great raconteur, with a seemingly endless fund of amusing and mildly sardonic tales about the great figures in genetics and cytology. Our world will never be quite the same with his passing.

K.H.L. Key
CSIRO Canberra

1984 POSTGRADUATE RESEARCH PROJECTS IN ENTOMOLOGY

Introduction

Following the example of the Entomological Society of New Zealand, which compiles an annual list for New Zealand, I have attempted to compile a list of current entomological research projects being undertaken by postgraduate students in Australian Universities. A tabulation of the replies to hand at present follows.

Certainly this compilation is incomplete, and, given the rate at which thesis topics alter, evolve or lapse, it will soon be out of date. However I feel that it will provide a useful means by which communication can take place between those of similar interests. I propose to conduct similar surveys to be published each year in the May issue of the News Bulletin.

If any individuals or Departments find they have been omitted from this list then please send me the details and a supplementary list can be produced for the next issue.

An increasing number of thesis-style projects are being undertaken at Colleges of Advanced Education. I have not tried to include them here but will try to collate them for next years' list. In the meantime I would appreciate hearing from any CAEs where entomology projects are current.

(Geoff Monteith)

AUSTRALIAN NATIONAL UNIVERSITY

Department of Zoology

Grad. Dip. Sc.

Day, K.L. Geographic variation in centipedes.

Smith, C.S. Rearing of Phytoecia coerulescens (Cerambycidae) on artificial diets versus whole plants of Echium plantagineum at different temperature regimes.

Smith, J.M. Ant ecology in a semi-arid environment.

B.Sc. (Hons.)

Jupp, P.W. Selection and evaluation of strains of entomophthoran fungi for use against Myzus persicae.

Vranjic, J.A. The taxonomy and biology of two species of Eriococcus (Homoptera : Eriococcidae).

M.Sc.

Moran, R.J. The systematics of the Australian Gnaphosidae: the genus Lampona Thorell.

Ph.D.

McCorquodale, D.B. Factors influencing communal nesting in Cerceris spp. (Hymenoptera : Sphecidae) South-east Australia.

Kim, S.P. Taxonomic revision of the Australian Homoneurinae (Diptera : Lauxaniidae).

Department of Environment Biology

Ph.D.

Landsberg, J. Dieback of rural eucalypts: quality of foliage as food for leaf-feeding insects.

Department of Population Biology

Ph.D.

Rowell, M. Chromosomal and protein evolution in the family Sparassidae (Arachnida).

Department of Neurobiology

Ph.D.

Osorio, D. Neural coding in the medulla of the insect optic lobe.

Maddess, E. Reponse properties of giant motion detecting cells in insects.

UNIVERSITY OF TASMANIA

Department of Geography

M.Sc.

Marks, F. The effect of aspect on plant and insect communities in Southern Tasmania.

Department of Zoology

Ph.D.

Williams, H. Studies on the geographical and seasonal distribution of Tasmanian Calliphorid flies.

Department of Agricultural Science

Honours

Doran, I. An evaluation of the effects of extracts of certain indigenous and exotic plant species on the behaviour and physiology of three insect pests and their toxicological effects.

Sprod, D. Integrated pest management of vectors of Barley Yellow Dwarf Virus disease in cereal crops with particular reference to host plant phenology and location.

M. Agr. Sc.

Candy, S. Life table analysis of the development biology of Platypus subgranosus and an investigation of the pattern of attack on the host tree, Nothofagus cunninghamii.

Molyneux, A.S. The biology and ecology of entomopathogenic nematodes.

Ph.D.

Alishah, A. The ecology and control of cabbage pests with particular reference to crop phenology and biological control.

Ireson, J. Studies on Lucerne Flea and other collembola in the Tasmanian cultural steppe.

McQuillan, P. The identification, ecology and host plant relationships of some Tasmanian root-feeding cockchafer.

Miller, L. Theoretical and practical aspects of the formulation and application of entomopathogenic nematodes.

UNIVERSITY OF MELBOURNE

Genetics Department

B.Sc. (Hons.)

Game, A. Localization of fitness modifiers for insecticide resistance in Lucilia cuprina.

Storey, M. Restriction map variation in the Ultrabithorax (Ubx) region of Drosophila.

M.Sc.

Cheong, M.F. A sex influenced protein in Chironomus - detection and characterization.

Tangney, S. Molecular characterization of neurological mutants of Drosophila.

Ph.D.

Clarke, G. Genetic architecture and adaptation: a study in the Australian sheep blowfly, Lucilia cuprina.

Constable, S. Role of micro-organisms in the etiology of myiasis in Lucilia cuprina.

Zoology Department

B.Sc. (Hons.)

Gawne, B. Development of neuromuscular synapses in the embryo of Locusta migratoria (Orthoptera : Acrididae).

McCutcheon, L. Structure and development of the larval nervous system of Lucilia cuprina.

M.Sc.

Evans, A. Acoustic behaviour of the small gryllids, Nemobiinae and Trigonidiinae.

Kavanagh, M. Acoustic behaviour of the mole cricket, Gryllotalpus sp.

MONASH UNIVERSITY

Zoology Department

B.Sc. (Hons.)

MacKenzie, M. Wood eating in stream insects.

M.Sc.

Roberts, B. Age pigment accumulation in sarcophagid flies.

Cookson, L. Lignin degradation in termites.

Schreiber, S. Seasonality of stream drift.

Ph.D.

St Clair, R. Taxonomy and ecology of larvae of the family Leptoceridae (Trichoptera).

Boulton, A. The ecology of the

macroinvertebrate fauna of temporary streams.

Barmuta, L. The microdistribution of macroinvertebrates in an Australian upland stream.

Coy, R. Nematodes and arthropods in soil and litter of Eucalyptus regnans forests.

Schwarz, M.P. Comparative social organisation and caste determination in allodapine bees.

LA TROBE UNIVERSITY

Dept. of Genetics and Human Variation

Ph.D.

Davidson, J. The study of environmental stress on Drosophila populations.

Department of Zoology (degrees not indicated)

Buchanan, G.A. The biology, quarantine and control of grape phylloxera, Daktulosphaira vitifoliae (Fitch), in Victoria.

Hewa-Kapuge, S. Ecological studies of the cabbage white butterfly, Pieris rapae L.

Smith, I.R. Evaluation of insecticidal application techniques on pome fruit pests and their natural enemies.

Farrell, G.S. Comparative biology of two species of colonial scale insects of Acacia.

Hives, N. A study of the inter-relationships and ecology of a small group of salticid spiders.

Horne P. A study of the inter-relationships and ecology of a small group of carabid beetles (Notonomus sp.).

McLaren, D. The diversity, succession and effects of grazing insects on plantation grown eucalypts.

Ridland, P. The role of cereal aphids in the transmission of Barley Dwarf Yellow virus near Werribee and complementary laboratory studies.

Ewart, D. An ecological study of termites in Victorian mountain ash forests.

UNIVERSITY OF QUEENSLAND

Department of Entomology

M. Agr. Sc.

Allwood, A.J. Observations on occurrence, population fluctuations and hosts of the Tephritidae in the Northern Territory.

Patsias, A. Susceptibility of potato tuber moth to insecticides and the effect of host plants on this susceptibility.

M.Sc.

Foley, D.H. Quality control assessment of laboratory populations of potato moth.

Hoque, M.R. Effect of plant variety on insecticide susceptibility.

Lewis, C.S. Studies relating to the fruit sucking moths Othreis fullonica and O. materna in the Darwin area.

Munaan, A. Revising thesis.

Ngaji, P. Gustatory chemoreception in the male Queensland fruit fly, Dacus tryoni (Frogg.) with emphasis on lure chemical(s).

Peart, M.D. Survey of insects in natural vegetation communities in the Lockyer Valley.

Pyke, B. Development of integrated pest management of cotton insects in the Lockyer Valley.

Schneider, M.A. Systematic revision of the genus Poecilohetaerus (Diptera : Lauxaniidae) with descriptions of 7 new species and notes on biology and internal anatomy.

Ph.D.

Atmosudirdjo, O. Malathion resistance and metabolism in three strains of Rhyzopertha dominica.

Cantrell, B.K. Biology, morphology and systematics of Australian Tachinidae (Diptera).

Cribb, B. The sensory physiology and behaviour of the blood-sucking midge Lasiohelea townsvillensis.

- Daglish, G. Relationship between host plant and development of lepidopterous larvae.
- Eisemann, C. A study of the olfactory attraction of gravid female Australian blowflies to sheep and their relative stimuli, and of the distribution, structure and electrophysiology of the sense organs involved in this process.
- Evans, M.E. Ecology of insects on soybeans.
- Firempong, S.K. Factors governing the selection of host plants by Heliothis spp.
- Freebairn, C.G. Biology and taxonomy of mermithid parasites of mosquitoes.
- Hagan, C.E. Investigation of the bionomics of estuarine Culicoides spp.
- Hamilton, J.G. The population dynamics of the cotton tipworm in south east Queensland.
- Hargreaves, J.R. Crucifer resource partitioning by a suite of economically important phytophagous insects.
- Harris, M.M. Taxonomic studies of Australian Ceratopogonidae.
- Holdom, D. Fungal pathogens of the blue-green lucerne aphid.
- Jorgensen, W.K. The sensory physiology and behaviour of the larval and nymphal cattle tick Boophilus microplus.
- King, J. Study of the systematics and biology of some Megachilidae (Apoidea).
- Merritt, D. The ultrastructure of the sense organs on the ovipositor of the Australian sheep blowfly, Lucilia cuprina and the central projections and connections of their neurons.
- Mottram, P.P. Biology and ecology of Culex annulirostris.
- Robertson, L.N. Aspects of the natural control of soldier fly (Inopus rubriceps).
- Singh-Asa, S. Sterilisation of Lucilia cuprina (Wiedemann) by gamma radiation.
- Taylor, M.F.T. Nutritional ecology of Salvinia herbivores.
- White, G.C. Optimisation of control methods for Tribolium castaneum in stored grain.
- Yeates, D. Revision of Comptosia (Diptera : Bombyliidae) in Australia.
- JAMES COOK UNIVERSITY
- Zoology Department (degrees not indicated)
- Lokkers, C. Ecology of the green tree ant, Oecophylla smaragdina.
- Hall, R. Studies of foraging behaviour in Eurema species.
- Duivenvoorden, L. The impact of insect herbivores on Salvinia.
- Downes, M. Developmental studies of theridiid spiders.
- Hudson, P. Population dynamics of medically important mosquitoes of the Ross River Dam.
- Ramsay, B. Predator-prey relationships involving mosquito larvae.
- Titmarsh, I. Population dynamics of Heliothis sp. on tobacco.
- Kay, I. Biology and ecology of Nilaparvata lugens on North Queensland rice crops.
- Tyndale-Biscoe, M. Age-grading and ecology of dung beetles. (external student).
- MACQUARIE UNIVERSITY
- School of Biological Sciences
- Ph.D.
- Bishop, A.L. A pest management programme for lucerne in New South Wales.
- Gray, M.R.B. Systematics of funnel web spiders.
- Hughes, P.B. Genetic and biochemical aspects of resistance to organophosphorus insecticides in Lucilia cuprina.
- James, D.G. Overwintering biology of the Monarch butterfly (Danaus plexippus) in New South Wales.
- M.Sc.
- Shuter, E.R. Arthropod communities on bracken.

UNIVERSITY OF SYDNEYDepartment of Plant Path. & Agric. Ent.Ph.D.

Kotze, A. Glutathione transferases of the sheep blowfly Lucilia cuprina (Diptera : Calliphoridae).

Reidy, G. Effect of Malathion and Paraquat on mixed function oxidases of rats and insects.

Russell, R.C. Vector studies related to mosquito borne diseases in Australia.

Sinclair, D.P. Taxonomic revision of the Tessaratomidae (Hemiptera : Heteroptera).

M. Sc. Agr.

Collett, M.G. The development of a grower monitoring service for the integrated control of mites on apple trees in the central tablelands of NSW.

Everingham, G. Biology and mixed function oxidases of Calogramma picta (Lepidoptera : Noctuidae).

Frances, S.P. Investigation of some aspects of the ecology of the mosquito pathogenic fungus Culicinomyces clavissporus.

MacDonald, J.A. Biology of the Pergidae (Hymenoptera : Symphyta).

Muller, M.J. Techniques for the manipulation of biting midges in arbovirus vector studies.

Rugg, D. Biology and ecology of some cockroaches in the sub-family Panesthiinae (Blattodea).

Spooner-Hart, R.N. The use of anti-feedants for reduction of damage by chewing insects.

School of Biological SciencesPh.D.

Fletcher, M. Biological control of citrus red scale Aonidiella aurantii.

Kelly, G. The role of the horehound bug on stands of horehound in augmenting the effectiveness of the biological control of

the green vegetable bug by the parasitic wasp Trissolcus basalis.

Commonwealth Institute of HealthPh.D.

Debenham, M. Studies in Australasian Ceratopogonidae (Diptera).

Panter, C. Microbiological aspects of the development of the fungus Culicinomyces for the biological control of insect vectors of disease.

Department of BiochemistryB.Sc. (Hons.)

Palmer, K. Nitrogen fixation in Nasutitermes sp. (Isoptera).

Schulz, M. Cellulose degradation in Australian termites.

UNIVERSITY OF ADELAIDEDepartment of Entomology (Waite Institute)M.Sc.

Hill, S.J. Pollination of almonds.

Lake, D.C. The central nervous system of Araneidae.

Lawson, D.C. Biological control of Ips grandicollis.

Morris, B. Taxonomy and physiology of blowfly larvae.

Nkunika, P. Studies of caste and ecology in the dampwood termite, Porotermes adamsoni in South Australia.

Ph.D.

Adidharma, D. Host plant interactions in biological control of Tetranychus urticae.

Allen, P.G. The management of spotted alfalfa aphid Therioaphis trifolii, f. maculata, in dryland lucerne pastures in South Australia.

Bailey, P.C.E. Laboratory and field studies on the feeding biology (ecology) of an ambush predator, Ranatra (Heteroptera : Nepidae).

Dall, D.J. Biochemical aspects of Kashmir and Sacbrood viruses, pathogens of the honeybee, Apis mellifera.

Farr, J.D. The nutrition of Uraba lugens.

Prasad, Y.K. On the efficiency of Rodolia cardinalis and its response to prey patches.

Ramachandran, R. Host finding behaviour of Ectropus excursaria.

Ramesh, P. The ecology and behaviour of Nysius vinitor (Hemiptera, Lygaeidae) -- key pest of sunflower (Helianthus annuus L.).

Rippon, G.D. Interaction of plant allelochemicals with the peritrophic membrane.

Rondonuwu, S. Bionomics of Uracanthus sp.

Samoedi, D. Factors affecting the effectiveness of Trioxys complanatus, a parasite of the spotted alfalfa aphid.

Zhao, J.W. Insect population dynamics: The influence of weather on the interaction of red scale of citrus (Aonidiella aurantii) and its parasitoids.

Zoology Department

B.Sc. (Hons.)

Gray, J.D. Effect of treated sewerage effluent on benthos of Sturt River.

Jackson, J.E. Biology of two species of caddisfly, Lectrides varians Mosely and Leptorussa darlingtoni (Banks) (Trichoptera : Leptoceridae).

Peake-Jones, D. The influence of clearing-induced isolation on rates of leaf removal from Eucalyptus obliqua by herbivorous insects.

Stapleton, J. Biology of Aedes (Diptera : Culicidae) in South Australia.

M.Sc.

Lea, J. Taxonomy and ecology of South Australian Oecetis McLachlan (Trichoptera : Leptoceridae).

Ph.D.

Browning, G.P. Taxonomy of Myrmecia Fabricius (Hymenoptera : Formicidae), with emphasis on the vindex species group.

Gardner, J. A revision of the higher categories of Stigmoderini (Coleoptera : Buprestidae).

Reynolds, J.G. Predation by the notonectid Anisops deanei (Hemiptera : Notonectidae) on freshwater zooplankton.

FLINDERS UNIVERSITY

Dept. of Biological Sciences

B.Sc. (Hons.)

Eisele, K. An experimental investigation of the relationship between extra-floral nectaries in the shrub Adriana klotzschii and ant visitation and herbivory

Ramsey, M. Some aspects of the ecology of the seed harvesting ants in a semi-arid habitat.

Ph.D.

Chilton, N. Studies of the parapatric boundaries of reptile ticks.

Belan, I. Ecology of host selection by reptile ticks.

WESTERN AUSTRALIAN INST. OF TECHNOLOGY

School of Biology

Grad. Dip. (Natural resources)

Boardman, W. Effect of prescription burning on Jarrah (Eucalyptus marginata) and communities.

Emery, R.N. The life history and agricultural importance of the small lucerne weevil, Atrichonotus taeniatulus, in Western Australia.

UNIVERSITY OF WESTERN AUSTRALIA

Botany Department

Ph.D.

Postle, A.C. The influence of differing soil and vegetation types on Jarrah (*Eucalyptus marginata*) forest soil and invertebrates. (supervised at W.A.I.T.)

Department of Zoology

M.Sc.

Fisher, K. Methodology of sterile male release of the Mediterranean fruit fly, Ceratitus capitata.

Hodge, A. The biology of leaf miners in kangaroo paws.

Traisiri, A. The control of blue green aphid by the parasite *Aphidius ervi* (Australian Contribution to Thailand National Agricultural Research Project).

Supasatian, C. The mating behaviour of the Mediterranean Fruit Fly, Ceratitus capitata (ACNARP).

Ph.D.

Bunn, S.F. Ecology of invertebrates in streams of the Jarrah forests in W.A. (including all major insects groups).

Barendse, W.J. Speciation of the bushcricket Mygalopsis marki.

Cook, D. The reproductive behaviour of the West Australian dung beetle.

Dadour, I.R. Agonistic behaviour of the bushcricket Mygalopsis marki.

Dolva, G. The biology of forest nemobine crickets.

Lymbery, A.J. The plasticity of coloration in Mygalopsis marki.

Mazanec, Z. The biology of the Jarrah Leaf Miner.

CONTRIBUTED ARTICLE

SOME INTERESTING SPECIMENS OF DANAUS HAMATUS HAMATUS AND PIERIS RAPAE (LEPIDOPTERA).

By C.N. Smithers, Australian Museum, Sydney.

Through the courtesy of Mrs M. Cranwell the Australian Museum recently received a

small collection of butterflies made by S.C. and M.P. Hordern at Killara, Sydney. Most of the dated material was collected in 1942, 1943 and 1944. It seems worthwhile to record the existence of some of this material.

Danaus hamatus hamatus (W.S. Macleay) (Nymphalidae) is a migrant butterfly with an essentially Torresian distribution. It is occasionally found well south of its usual range, sometimes reaching Sydney and beyond. A summary of strong southerly movements has been published (Smithers 1983 and references therein). The Horden collection includes several specimens collected in Sydney between 23rd December 1943 and 5th January 1944, indicating a substantial hitherto unrecorded invasion. A more recent southerly movement has been seen about 50 km north of Singleton, NSW on 25th January 1982 (Obs. C.N. and H.G. Smithers). Known seasons of major southerly movements are the summers of 1943-44, 1961-62, 1970-71, and 1981-82.

Pieris rapae (L.) (Pieridae) Peters (1970) has provided an account of the spread of this Palearctic species since its arrival in Australia in about 1937. The earliest Sydney specimens in the Australian Museum are dated January 1943 although the species was collected in Sydney in January 1941. The Horden collection included seven adults and six pupal cases which are historically interesting in that they are from Killara and some have dates between 4th and 28th November 1943. They are, therefore, some of the earliest Australian specimens extant.

Acknowledgements

I would like to thank Mrs M. Cranwell for donating the collection to the Museum and John Peters for information on the history of P. rapae.

References

- Peters, J.V., 1970. The Cabbage White Butterfly. Aust. Nat. Hist. 16(9): 300-303, illustr.
- Smithers, C.N., 1983. Migration records in Australia. 3. Danainae and Acraeinae (Lepidoptera : Nymphalidae). Aust. ent. Mag. 10(2-3): 21-27.

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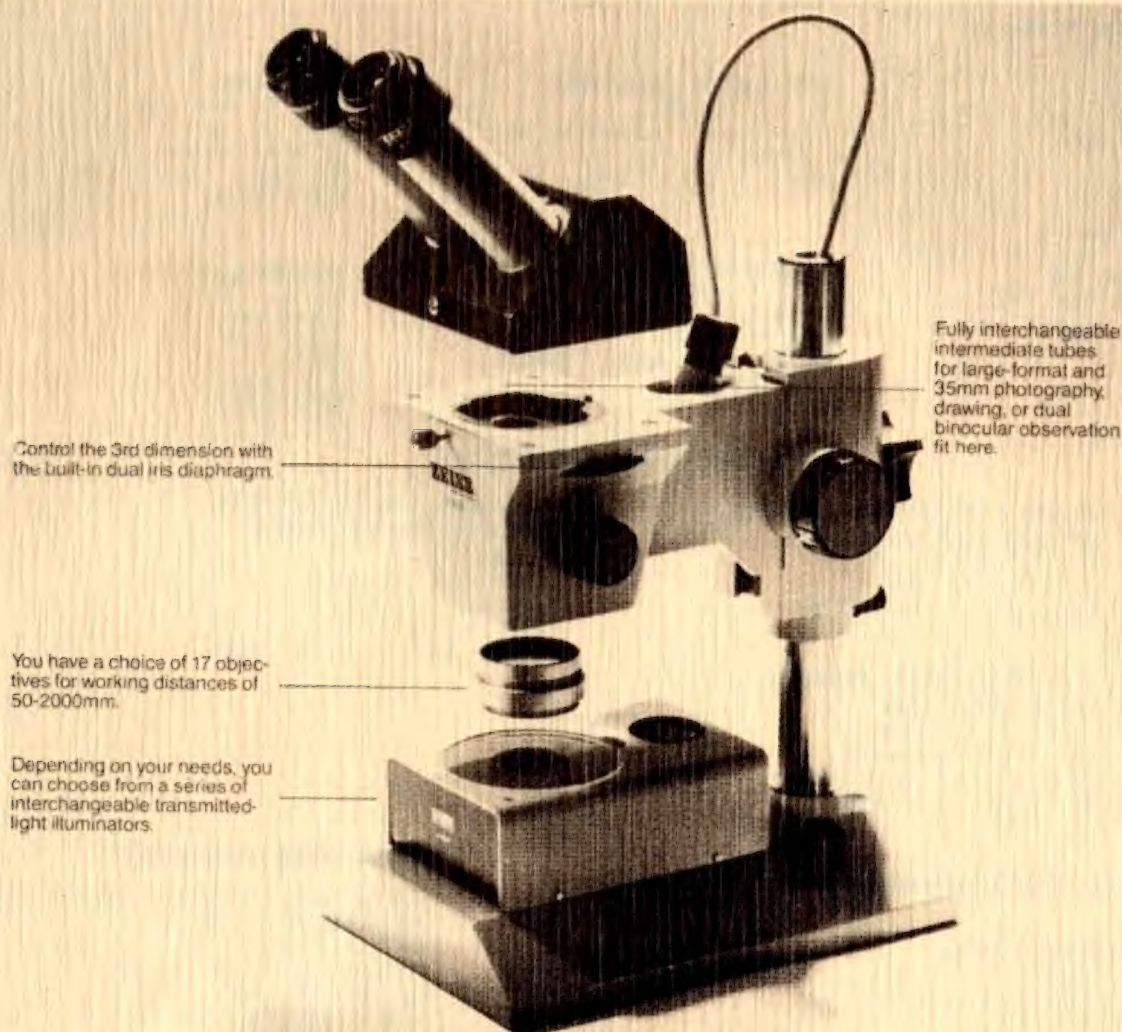
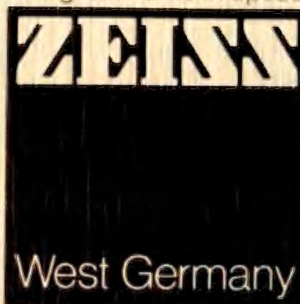
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Dr. I.D. Galloway
D.P.I. Entomology Branch
Meiers Road
INDOOROPILLY, QLD. 4068.
(07) 3779421

Mr. A.P. Walford-Huggins
P.O. Box 17
MOLLOY, QLD. 4880.
Phone Julatten 62

NEW SOUTH WALES

Dr. M.J. Fletcher
Biological & Chem. Res. Inst.
PMB No 10
RYDALMERE, N.S.W. 2116.
(02) 6300251

Dr R.V. Gunning
Tamworth Agric. Res. Centre
R.M.B. No. 944
TAMWORTH NSW 2340
(067) 67 9300

AUSTRALIAN CAPITAL TERRITORY

Dr. P.J. Gullan
Zoology Department
Australian National University
G.P.O. Box 4
CANBERRA, A.C.T. 2601.
(062) 493028

Dr. B.C. Longstaff
CSIRO Division of Entomology
G.P.O. Box 1700
CANBERRA, A.C.T. 2601.
(062) 465705

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D.P.P. Agric. Quarantine Service
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Western Australian Museum
Francis Street
PERTH, W.A. 6000.
(09) 3284411

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Plant Research Institute
Swan Street
BURNLEY, VIC. 3121.
(03) 8101511

TASMANIA

Mr. P.B. McQuillan
Dept. of Agriculture
St John's Avenue
NEW TOWN, TAS. 7008.
(002) 284851

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Dr. D.J. Cooper
Entomology Department
Waite Institute
PMB No 1
GLEN OSMOND, S.A. 5064.
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Mr M.S. Moulds
c/- Entomology Dept.
Australian Museum
P.O. Box A285
SYDNEY SOUTH, N.S.W. 2000.

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Biology Department
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MEMBERS PLEASE NOTE NEW EXECUTIVE ADDRESSES

At the 15th Annual General Meeting at Mildura on 13 May 1984 there were numerous changes of office-bearers.

Letters addressed to the previous Executive Officers may be considerably delayed if the people concerned are unable to forward correspondence to their successors through absence on field work or overseas travel.

The names and addresses of current members of the Society's Executive are:

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Department of Entomology
University of Queensland
ST. LUCIA. QLD. 4067.
(07) 3773658

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G.P.O. Box 1700
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G.P.O. Box 1700
CANBERRA. A.C.T. 2601.
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D.P.I. Entomology Branch
Meiers Road
INDOOROOPIILLY. QLD. 4068.
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CSIRO Division of Entomology
G.P.O. Box 1700
CANBERRA. A.C.T. 2601.
(062) 465077

BUSINESS MANAGER

Mr. J.F. Donaldson
D.P.I. Entomology Branch
Meiers Road
INDOOROOPIILLY. QLD. 4068.
(07) 3779419

To the Membership Officer,
Institute of Biology in Australia,
Science Centre,
35-43 Clarence Street,
Sydney 2000.



Please send me an application form and further details
about membership of the IBA

Name:

.....

Address:

.....

.....

.....

Telephone (office):

(home):

Please tick if you would like the nearest committee
member to telephone or contact you ☐

Signed

Date

Supplement to the

Australian Entomological Society News Bulletin, 21 (2).

INSTITUTE OF
BIOLOGY
IN AUSTRALIA



**MEMBERSHIP
INFORMATION
1983-1984**

Science Centre
35-43 Clarence Street, Sydney 2000

INSTITUTE OF BIOLOGY IN AUSTRALIA



The Institute of Biology was formed in the United Kingdom in 1950. Its initial membership of 500 included some of the most prominent biologists of the day. It was granted a royal charter in 1980. In 1982 its membership had grown to 17,000 of which about 1500 were biologists living outside the British Isles.

The Institute is well known through its publications which include the widely read series *Studies in Biology*, the *Journal of Biological Education* and the *Biologist*. It is also prominent in education and was responsible for the introduction of the Higher National Diploma in Biology and the Certificate in Applied Biology. It has been very active in public affairs and has expressed the views of biologists to several royal commissions and other government bodies.

In 1975 the Institute was a founder member of the European Community Biologists Association; a body which represents the views of some 60,000 professional biologists.

The Institute is the body which sets the professional standards for biology. Its membership is drawn from all fields of biological activity including agriculture, education, forestry and medicine, as well as science. It confers on its members a status similar to that of members of other professional institutes such as the Royal Australian Chemical Institute and the Australian Institute of Physics.

Institute of Biology in Australia

In 1983, 186 members of the Institute resident in Australia formed the **Institute of Biology in Australia (IBA)** which is a branch of the Institute of Biology. After a transition period it is expected that the IBA will become fully autonomous but remain in fraternal association with the Institute of Biology and with other organisations representing professional biologists in other countries.

Objectives

The **Institute of Biology in Australia** aims to represent the profession in Australia, to promote education and research in biology, to improve communication between biologists, and to speak on behalf of qualified biologists by using their knowledge to advise all levels of government, other organisations, the community and individuals.

Membership

The standards required for the various grades of membership are as follows:

Fellow: members with considerable achievement in biology, who are nominated by existing Fellows.

Member: normally requires a pass degree in a biological subject plus five years appropriate experience, or a first or second class honours degree and three years experience, or a Master's degree and two years experience, or a PhD.

Graduate: is for those with an appropriate honours degree without experience.

Associate: normally requires a pass degree.

Affiliate: offers full participation for those who have not obtained the requirements for election to one of the above grades.

Student: for those studying for a recognised biological qualification.

Fellows and members are corporate members and are entitled to use the designatory letters, FIBiol and MIBiol, respectively.

Activities

The IBA is currently compiling a national register of members. This will be followed by registers of Australian biological societies, employers and consultants.

As the **Institute** grows in strength its activities will include:

- Representation to governments on biological issues of national and regional importance;

- Publication of a newsletter to include notices of forthcoming meetings, news of associated biological societies, job vacancies, etc.;
- Organisation of symposia and colloquia on broad biological topics;
- Liaison with biological and other learned societies, other professional institutes and the Australian Academy of Science;
- Promotion of research into biological issues of significance to the community; and the
- Stimulation of interest in biology in schools and encouragement of dialogue between members of each tier of biological education and other professional biologists in research and industry.

Membership fees

Between \$20 and \$50 depending on level of membership. A small charge to cover administrative costs is made on application.

Benefits from belonging to IBA

- Membership of an international professional institute which is widely respected and highly influential.
- Copy of the journal *Biologist*.
- Newsletter published by the IBA
- 25 per cent reduction in purchasing *Studies in Biology*.
- 40-50 per cent reduction in subscriptions to *Journal of Biological Education* and *Journal of Biosocial Sciences*
- Advice and information service.
- Access to the Institute secretariat and use of facilities in the United Kingdom.
- An opportunity to participate actively in the work of the IBA from its inception.

Enquiries

Further information about the work of the IBA may be obtained from the Honorary Secretary.

Enquiries about membership should be directed to the Membership Officer using the request for information form included in this leaflet.

